

25X1

To [redacted]

on 3 May '57

2 May '57

Explosive Box Tests

1000 units to be available

25X1

Material

steel plate of varying thicknesses  $\frac{1}{8}, \frac{1}{4}, \frac{3}{8}$  etc.  
 (three boxes per thickness)

Comparison with more ideal det. position  
 (about 3 shots with det on top)  
 lead block test

Reliability of Firing Train under Various Cond.Unit at  $-30^{\circ}\text{F}$  or lowest op. temp - about 100 units" "  $70^{\circ}\text{F}$  " 300 units" "  $120^{\circ}\text{F}$  or highest operating temp " 100 "After exposure to

6 inches of water 70 F - 48 hr to 10 units

12 " " " " " " " " " "

 $120^{\circ}\text{F}$ , 90% hum - 48 hr " " "

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### Durability

Drop test inert loading - dummy det  
to deck h/d, det, delay positions  
about 10 ft. - about 5 units

### Handling

Notes on convenience and time for  
loading (C-3, C-4), closing, placing  
detonator and delay

at -30 °F 15 units

at 70 °F 20 units

at 120 °F 15 units

### Holding

On vehicles truck and jeep inert  
loading with loose detonators and  
over rough roads -

On bottom of gas tanks 5 units

On engine 3 units

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Storage

High temp extreme for extended period  
about 20 units

Physics suggestion

- a. Tests with #6 caps - <sup>make 27 - attach also</sup> if fails add C-3 in well
- b. Try C-2 (has sensitivity)
- c. Weathering machine - might be used if submergence tests fail
- d. lead block tests to check set position

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